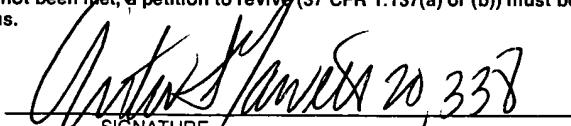


JAP15 Rec'd PCT/PTO 21 AUG 2006

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		CUSTOMER NO. 22,852 ATTORNEY'S DOCKET NUMBER: 01197.0258  U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/551,465
INTERNATIONAL APPLICATION NO. PCT/JP2004/004849	INTERNATIONAL FILING DATE April 2, 2004	PRIORITY DATE CLAIMED April 4, 2003
TITLE OF INVENTION: MICROPOROUS POLYOLEFIN FILM		
APPLICANTS FOR DO/EO/US: 1) Masahiro OHASHI and 2) Takahiko KONDO		
Applicants herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C 371.</p> <p>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin <u>national examination procedures</u> (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)).</p> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> is not required, as the application was filed with the United States Receiving Office (RO/US).</li></ul> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto.</li><li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li></ul> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li><li>d. <input type="checkbox"/> have not been made and will not be made.</li></ul> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input type="checkbox"/> Information Disclosure Statement under 37 CFR 1.97 and 1.98</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A Substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154 (d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application 35 U.S.C. 154 (d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information:</p> <ul style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> Copy of cover page of Corrected International Publication No. WO 2004/089627 A1.</li><li>b. <input checked="" type="checkbox"/> Copy of Notification of Missing Requirements.</li><li>c. <input type="checkbox"/></li><li>d. <input type="checkbox"/></li><li>e. <input type="checkbox"/></li></ul>		

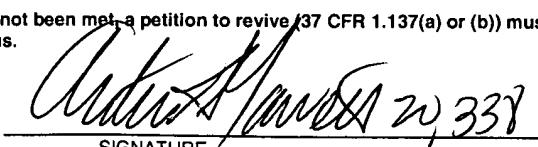
U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/551,465		INTERNATIONAL APPLICATION NO. PCT/JP2004/004849		ATTORNEY'S DOCKET NUMBER 01197.0258	
The following fees have been submitted:				CALCULATIONS	PTO Use Only
21. <input type="checkbox"/> BASIC NATIONAL FEE (37 CFR 1.492(a)): ..... \$300.00				\$	
22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$	
If the Written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$0				\$	
All other situations ..... \$200					
23. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ..... \$400 All other situations ..... \$500					
TOTAL of 21, 22 and 23 =					
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		Rate	
45 - 100 =	/50=			x \$250.00	\$
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims	19 - 20 = 0		x \$50.00		
Independent Claims	3 - 3 = 0		x \$200.00		
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM(S) (if applicable)				\$	
				+\$360.00	
TOTAL OF ABOVE CALCULATIONS =				\$130.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$	
				SUBTOTAL = \$130.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest priority date (37 CFR 1.492(i)).				\$	
				+	
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Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.				\$	
+				\$	
GFREY1 00000060 10551465 130.00 OP				TOTAL FEES ENCLOSED = \$130.00	
				Amount to be refunded:	
				\$	
a. <input checked="" type="checkbox"/> A check in the amount of \$ 130.00 to cover the above fees is enclosed.				\$	
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.				\$	
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0916. A duplicate copy of this sheet is enclosed.				\$	
d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.				\$	
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. 901 New York Avenue, N.W. Washington, DC 20001-4413 EFC/FPD/sci					
Ernest F. Chapman/25.961 NAME/REGISTRATION NUMBER					
DATED: August 21, 2006					

08/24/2006  
01 FC:1617

  
SIGNATURE

Ernest F. Chapman/25.961  
NAME/REGISTRATION NUMBER

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)</b> <b>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>CUSTOMER NO. 22,852</b> <b>ATTORNEY'S DOCKET NUMBER: 01197.0258</b>  <b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b> <b>10/551,465</b>
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 SIGNATURE					
Ernest F. Chapman/25,961 NAME/REGISTRATION NUMBER					
DATED: August 21, 2006					



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/551,465	Masahiro OHASHI	01197.0258
INTERNATIONAL APPLICATION NO.		
PCT/JP04/04849		
I.A. FILING DATE	PRIORITY DATE	
03/02/2004	04/04/2003	

Finnegan Henderson Farabow Garrett + Dunner  
 901 New York N W  
 Washington, DC 20001-4413

**RECEIVED**

JUN 23 2006

FINNEGAN, HENDERSON FARABOW,  
 GARRETT AND DUNNER, LLP

CONFIRMATION NO. 4437  
 371 FORMALITIES LETTER  
  
 \*OC000000019352416\*

Date Mailed: 06/21/2006

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 10/03/2005
- English Translation of the IA filed on 10/03/2005
- Copy of the International Search Report filed on 10/03/2005
- Preliminary Amendments filed on 04/03/2006
- Information Disclosure Statements filed on 10/03/2005
- U.S. Basic National Fees filed on 10/03/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

**SUMMARY OF FEES DUE:**

Total additional fees required for this application is \$-1680 for a Large Entity: Docketed 412316 Attorney ABG US1

- \$130 Surcharge.

RTK

JUN 27 2006

Case 01197-0258-00  
 Due Date 08-21-06  
 Action Dec. Schy  
 By RTK

(A previous payment of \$1810 will be applied to the additional fees indicated above.)

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

FRANCINE YOUNG

Telephone: (703) 308-9140 EXT 215

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/551,465	PCT/JP04/04849	01197.0258

FORM PCT/DO/EO/905 (371 Formalities Notice)

(12)特許協力条約に基づいて公開された国際出願

訂正版

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2004年10月21日 (21.10.2004)

PCT

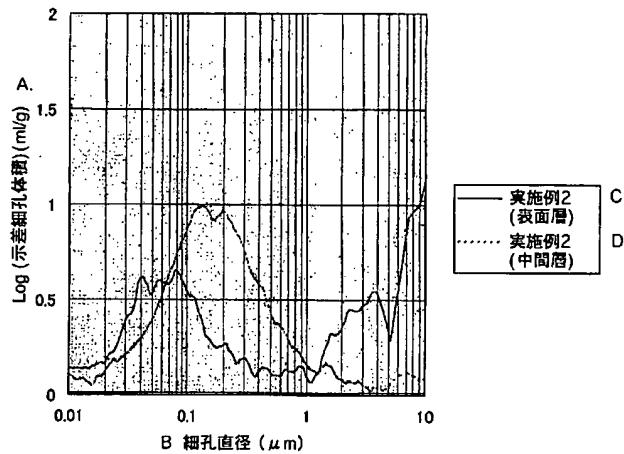
(10) 国際公開番号  
WO 2004/089627 A1

(51) 国際特許分類<sup>7</sup>: B32B 27/32, H01M 2/16  
(21) 国際出願番号: PCT/JP2004/004849  
(22) 国際出願日: 2004年4月2日 (02.04.2004)  
(25) 国際出願の言語: 日本語  
(26) 国際公開の言語: 日本語  
(30) 優先権データ:  
特願2003-101567 2003年4月4日 (04.04.2003) JP  
(71) 出願人(米国を除く全ての指定国について): 旭化成  
ケミカルズ株式会社 (ASAHI KASEI CHEMICALS  
CORPORATION) [JP/JP]; 〒1008440 東京都千代田区  
有楽町一丁目1番2号 Tokyo (JP).  
(72) 発明者; および  
(75) 発明者/出願人(米国についてのみ): 大橋 正寛  
(OHASHI, Masahiro) [JP/JP]; 〒5240032 滋賀県守  
山市岡町115-10 Shiga (JP). 近藤 孝彦 (KONDO,  
Takahiko) [JP/JP]; 〒2320052 神奈川県横浜市南区井  
土ヶ谷中町161-3-807 Kanagawa (JP).  
(74) 代理人: 浅村 皓, 外 (ASAMURA, Kiyoshi et al.); 〒  
1000004 東京都千代田区大手町2丁目2番1号 新大手  
町ビル331 Tokyo (JP).

/統葉有/

(54) Title: POLYOLEFIN MICROPOROUS MEMBRANE

(54) 発明の名称: ポリオレフィン微多孔膜



A...Log (DIFFERENTIAL PORE VOLUME) (ml/g)  
B...PORE DIAMETER (μm)  
C...EXAMPLE 2 (SURFACE LAYER)  
D...EXAMPLE 2 (INTERLAYER)

(57) Abstract: A polyolefin microporous membrane which contains polyethylene and polypropylene as the essential components and consists of a laminated film constituted of at least two layers, wherein the polypropylene content of at least one surface layer exceeds 50 wt% and is up to 95 wt% and the polyethylene content of the whole membrane is 50 to 95 wt%.

(57) 要約: ポリエチレンとポリプロピレンとを必須成分として含み、二層以上の積層フィルムからなるポリオレ  
フィン微多孔膜であって、少なくとも片側の表面層に

WO 2004/089627 A1

/統葉有/